

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**



Attorney's Docket No.: 0172.42109X00

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that: my residence, post office address and country of citizenship are as stated below, next to my name; I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

ENHANCED QOS CONTROL

the specification of which

is attached hereto.

X

was filed on September 26, 2003 as

United States Application Number 10/670,221

or PCT International Application Number _____

and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits, under 35 U.S.C. 119(a)-(d) or 365(b), of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

**Priority
Claimed?**

NONE

(Number)

(Country)

(Foreign Filing Date)

Yes

No

(Number)

(Country)

(Foreign Filing Date)

Yes

No

I hereby claim the benefit, under 35 U.S.C. 119(e), of any United States provisional application(s) listed below:
60/413,877 September 27, 2002

(Application Number)

Filing Date

(Application Number)

Filing Date

I hereby claim the benefit, under 35 U.S.C. 120, of any United States application(s) listed below:

(Application Number)

Filing Date

(Status -- patented, pending, abandoned)

(Application Number)

Filing Date

(Status -- patented, pending, abandoned)

I hereby appoint: Donald R. Antonelli, Reg. No. 20,296; Melvin Kraus, Reg. No. 22,466; William I. Solomon, Reg. No. 28,565; Gregory E. Montone, Reg. No. 28,141; Ronald J. Shore, Reg. No. 28,577; Donald E. Stout, Reg. No. 26,422; Alan E. Schiavelli, Reg. No. 32,087; James N. Dresser, Reg. No. 22,973; Carl I. Brundidge, Reg. No. 29,621; Paul J. Skwierawski, Reg. No. 32,173; and Robert M. Bauer, Reg. No. 34,487; of ANTONELLI, TERRY, STOUT & KRAUS, LLP with offices located at 1300 North Seventeenth Street, Suite 1800, Arlington, Virginia 22209, my attorneys, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Send all correspondence to:

Customer Number 020457
ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 North Seventeenth Street
Suite 1800
Arlington, VA. 22209

Direct all telephone calls and faxes to:

TEL: (703) 312-6600
FAX: (703) 312-6666

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole/First Inventor Kati AHVONEN

Inventor's Signature _____ Date _____
Residence _____ Citizenship _____
(City, State) (Country of Citizenship)
Mailing Address _____

Full Name of Second/Joint Inventor Ralitsa GATEVA

Inventor's Signature _____ Date _____
Residence _____ Citizenship _____
(City, State) (Country of Citizenship)
Mailing Address _____

Full Name of Third/Joint Inventor Zhi-Chun HONKASALO

Inventor's Signature [Signature] Date 9.2.2004
Residence Finland Citizenship British
(City, State) (Country of Citizenship)
Mailing Address _____

Kylpyläntie 4B Kauniainen Finland 02700

Full Name of Fourth/Joint Inventor Tuija HURTA

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Fifth/Joint Inventor Mika KIIKKILÄ

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Sixth/Joint Inventor Aki T. KORHONEN

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Seventh/Joint Inventor Zheng LI

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Seventh/Joint Inventor Markku T. MÄKINEN

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Seventh/Joint Inventor Antti PIKKUSAARI

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Seventh/Joint Inventor Martti TUULOS

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____



Attorney's Docket No.: 0172.42109X00

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that: my residence, post office address and country of citizenship are as stated below, next to my name; I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

ENHANCED QOS CONTROL

the specification of which

is attached hereto.

X

was filed on September 26, 2003 as

United States Application Number 10/670,221

or PCT International Application Number _____

and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits, under 35 U.S.C. 119(a)-(d) or 365(b), of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

**Priority
Claimed?**

NONE

(Number)

(Country)

(Foreign Filing Date)

Yes No

(Number)

(Country)

(Foreign Filing Date)

Yes No

I hereby claim the benefit, under 35 U.S.C. 119(e), of any United States provisional application(s) listed below:
60/413,877 September 27, 2002

(Application Number)

Filing Date

(Application Number)

Filing Date

I hereby claim the benefit, under 35 U.S.C. 120, of any United States application(s) listed below:

(Application Number)

Filing Date

(Status -- patented, pending, abandoned)

(Application Number)

Filing Date

(Status -- patented, pending, abandoned)

I hereby appoint: Donald R. Antonelli, Reg. No. 20,296; Melvin Kraus, Reg. No. 22,466; William I. Solomon, Reg. No. 28,565; Gregory E. Montone, Reg. No. 28,141; Ronald J. Shore, Reg. No. 28,577; Donald E. Stout, Reg. No. 26,422; Alan E. Schiavelli, Reg. No. 32,087; James N. Dresser, Reg. No. 22,973; Carl I. Brundidge, Reg. No. 29,621; Paul J. Skwierawski, Reg. No. 32,173; and Robert M. Bauer, Reg. No. 34,487; of ANTONELLI, TERRY, STOUT & KRAUS, LLP with offices located at 1300 North Seventeenth Street, Suite 1800, Arlington, Virginia 22209, my attorneys, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Send all correspondence to:

Customer Number 020457
ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 North Seventeenth Street
Suite 1800
Arlington, VA. 22209

Direct all telephone calls and faxes to:

TEL: (703) 312-6600
FAX: (703) 312-6666

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole/First Inventor Kati AHVONEN

Inventor's Signature *Kati Ahvonen*

Date 5.2.2004

Residence Helsinki

Citizenship Finland

(City, State)

(Country of Citizenship)

Mailing Address Olavantie 5 a 33, 00200 Helsinki, Finland

Full Name of Second/Joint Inventor Ralitsa GATEVA

Inventor's Signature _____

Date _____

Residence _____

Citizenship _____

(City, State)

(Country of Citizenship)

Mailing Address _____

Full Name of Third/Joint Inventor Zhi-Chun HONKASALO

Inventor's Signature _____

Date _____

Residence _____

Citizenship _____

(City, State)

(Country of Citizenship)

Mailing Address _____

Full Name of Fourth/Joint Inventor Tuija HURTA
Inventor's Signature _____ Date _____
Residence _____ Citizenship _____
(City, State) (Country of Citizenship)
Mailing Address _____

Full Name of Fifth/Joint Inventor Mika KIIKKILÄ
Inventor's Signature _____ Date _____
Residence _____ Citizenship _____
(City, State) (Country of Citizenship)
Mailing Address _____

Full Name of Sixth/Joint Inventor Aki T. KORHONEN
Inventor's Signature _____ Date _____
Residence _____ Citizenship _____
(City, State) (Country of Citizenship)
Mailing Address _____

Full Name of Seventh/Joint Inventor Zheng LI
Inventor's Signature _____ Date _____
Residence _____ Citizenship _____
(City, State) (Country of Citizenship)
Mailing Address _____

Full Name of Seventh/Joint Inventor Markku T. MÄKINEN
Inventor's Signature _____ Date _____
Residence _____ Citizenship _____
(City, State) (Country of Citizenship)
Mailing Address _____

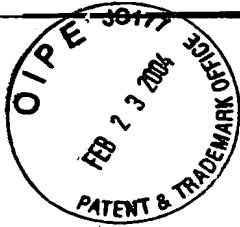
Full Name of Seventh/Joint Inventor Antti PIKKUSAARI
Inventor's Signature _____ Date _____
Residence _____ Citizenship _____
(City, State) (Country of Citizenship)
Mailing Address _____

Full Name of Seventh/Joint Inventor Martti TUULOS

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____



Attorney's Docket No.: 0172.42109X00

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that: my residence, post office address and country of citizenship are as stated below, next to my name; I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

ENHANCED QOS CONTROL

the specification of which

is attached hereto.

X

was filed on September 26, 2003 as

United States Application Number 10/670,221

or PCT International Application Number _____

and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits, under 35 U.S.C. 119(a)-(d) or 365(b), of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

**Priority
Claimed?**

NONE

(Number)

(Country)

(Foreign Filing Date)

Yes

No

(Number)

(Country)

(Foreign Filing Date)

Yes

No

I hereby claim the benefit, under 35 U.S.C. 119(e), of any United States provisional application(s) listed below:
60/413,877 September 27, 2002

(Application Number)

Filing Date

(Application Number)

Filing Date

I hereby claim the benefit, under 35 U.S.C. 120, of any United States application(s) listed below:

(Application Number)

Filing Date

(Status -- patented, pending, abandoned)

(Application Number)

Filing Date

(Status -- patented, pending, abandoned)

I hereby appoint: Donald R. Antonelli, Reg. No. 20,296; Melvin Kraus, Reg. No. 22,466; William I. Solomon, Reg. No. 28,565; Gregory E. Montone, Reg. No. 28,141; Ronald J. Shore, Reg. No. 28,577; Donald E. Stout, Reg. No. 26,422; Alan E. Schiavelli, Reg. No. 32,087; James N. Dresser, Reg. No. 22,973; Carl I. Brundidge, Reg. No. 29,621; Paul J. Skwierawski, Reg. No. 32,173; and Robert M. Bauer, Reg. No. 34,487; of ANTONELLI, TERRY, STOUT & KRAUS, LLP with offices located at 1300 North Seventeenth Street, Suite 1800, Arlington, Virginia 22209, my attorneys, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Send all correspondence to:

Customer Number 020457
ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 North Seventeenth Street
Suite 1800
Arlington, VA. 22209

Direct all telephone calls and faxes to:

TEL: (703) 312-6600
FAX: (703) 312-6666

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole/First Inventor Kati AHVONEN
Inventor's Signature _____ Date _____
Residence _____ Citizenship _____
(City, State) (Country of Citizenship)
Mailing Address _____

Full Name of Second/Joint Inventor Ralitsa GATEVA
Inventor's Signature RGT Date Feb. 03. 2009
Residence KIRKLAND, WA, USA Citizenship BULGARIAN
(City, State) (Country of Citizenship)
Mailing Address 2406 Lake WA Blvd. NE, Apt. C
KIRKLAND 98033, WA USA

Full Name of Third/Joint Inventor Zhi-Chun HONKASALO
Inventor's Signature _____ Date _____
Residence _____ Citizenship _____
(City, State) (Country of Citizenship)
Mailing Address _____

Full Name of Fourth/Joint Inventor Tuija ~~HURTA~~ HURTTA ^{4.2.2004} ~~TH~~
Inventor's Signature *Tuija Hurttä* Date 4.2.2004
Residence ESPOO (City, State) Citizenship FINLAND (Country of Citizenship)
Mailing Address PAJUSIRKUNTIE 4 B, 02660 ESPOO, FINLAND

Full Name of Fifth/Joint Inventor Mika KIIKKILÄ
Inventor's Signature _____ Date _____
Residence _____ (City, State) Citizenship _____ (Country of Citizenship)
Mailing Address _____

Full Name of Sixth/Joint Inventor Aki T. KORHONEN
Inventor's Signature *Aki Korhonen* Date 4.2.2004
Residence ESPOO (City, State) Citizenship FINLAND (Country of Citizenship)
Mailing Address HIRISLAHDENTIE 17D
02230 ESPOO, FINLAND

Full Name of Seventh/Joint Inventor Zheng LI
Inventor's Signature _____ Date _____
Residence _____ (City, State) Citizenship _____ (Country of Citizenship)
Mailing Address _____

Full Name of Seventh/Joint Inventor Markku T. MÄKINEN
Inventor's Signature _____ Date _____
Residence _____ (City, State) Citizenship _____ (Country of Citizenship)
Mailing Address _____

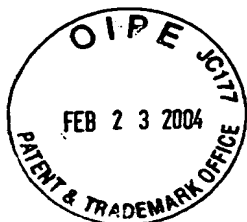
Full Name of Seventh/Joint Inventor Antti PIKKUSAARI
Inventor's Signature _____ Date _____
Residence _____ (City, State) Citizenship _____ (Country of Citizenship)
Mailing Address _____

Full Name of Seventh/Joint Inventor Martti TUULOS

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____



Attorney's Docket No.: 0172.42109X00

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that: my residence, post office address and country of citizenship are as stated below, next to my name; I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

ENHANCED QOS CONTROL

the specification of which

is attached hereto.

X

was filed on September 26, 2003 as

United States Application Number 10/670,221

or PCT International Application Number _____

and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits, under 35 U.S.C. 119(a)-(d) or 365(b), of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

**Priority
Claimed?**

NONE

(Number)

(Country)

(Foreign Filing Date)

Yes

No

(Number)

(Country)

(Foreign Filing Date)

Yes

No

I hereby claim the benefit, under 35 U.S.C. 119(e), of any United States provisional application(s) listed below:
60/413,877 September 27, 2002

(Application Number)

Filing Date

(Application Number)

Filing Date

I hereby claim the benefit, under 35 U.S.C. 120, of any United States application(s) listed below:

(Application Number)

Filing Date

(Status -- patented, pending, abandoned)

(Application Number)

Filing Date

(Status -- patented, pending, abandoned)

I hereby appoint: Donald R. Antonelli, Reg. No. 20,296; Melvin Kraus, Reg. No. 22,466; William I. Solomon, Reg. No. 28,565; Gregory E. Montone, Reg. No. 28,141; Ronald J. Shore, Reg. No. 28,577; Donald E. Stout, Reg. No. 26,422; Alan E. Schiavelli, Reg. No. 32,087; James N. Dresser, Reg. No. 22,973; Carl I. Brundidge, Reg. No. 29,621; Paul J. Skwierawski, Reg. No. 32,173; and Robert M. Bauer, Reg. No. 34,487; of ANTONELLI, TERRY, STOUT & KRAUS, LLP with offices located at 1300 North Seventeenth Street, Suite 1800, Arlington, Virginia 22209, my attorneys, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Send all correspondence to:

Customer Number 020457
ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 North Seventeenth Street
Suite 1800
Arlington, VA. 22209

Direct all telephone calls and faxes to:

TEL: (703) 312-6600
FAX: (703) 312-6666

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole/First Inventor Kati AHVONEN

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Second/Joint Inventor Ralitsa GATEVA

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Third/Joint Inventor Zhi-Chun HONKASALO

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Fourth/Joint Inventor Tuija HURTA

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Fifth/Joint Inventor Mika KIIKKILÄ

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Sixth/Joint Inventor Aki T. KORHONEN

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Seventh/Joint Inventor Zheng LI

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Seventh/Joint Inventor Markku T. MÄKINEN

Inventor's Signature Markku T. Mäkinen Date 03 Feb 2004

Residence Isonjärventie 14 A1, 02940 Espoo Citizenship Finland
(City, State) (Country of Citizenship)

Mailing Address markku.t.makinen@nokia.com

Full Name of Seventh/Joint Inventor Antti PIKKUSAARI

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Seventh/Joint Inventor Martti TUULOS

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____



Attorney's Docket No.: 0172.42109X00

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that: my residence, post office address and country of citizenship are as stated below, next to my name; I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

ENHANCED QOS CONTROL

the specification of which

is attached hereto.

X

was filed on September 26, 2003 as

United States Application Number 10/670,221

or PCT International Application Number _____

and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits, under 35 U.S.C. 119(a)-(d) or 365(b), of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

**Priority
Claimed?**

NONE

(Number)

(Country)

(Foreign Filing Date)

Yes

No

(Number)

(Country)

(Foreign Filing Date)

Yes

No

I hereby claim the benefit, under 35 U.S.C. 119(e), of any United States provisional application(s) listed below:
60/413,877 September 27, 2002

(Application Number)

Filing Date

(Application Number)

Filing Date

I hereby claim the benefit, under 35 U.S.C. 120, of any United States application(s) listed below:

(Application Number)

Filing Date

(Status -- patented, pending, abandoned)

(Application Number)

Filing Date

(Status -- patented, pending, abandoned)

I hereby appoint: Donald R. Antonelli, Reg. No. 20,296; Melvin Kraus, Reg. No. 22,466; William I. Solomon, Reg. No. 28,565; Gregory E. Montone, Reg. No. 28,141; Ronald J. Shore, Reg. No. 28,577; Donald E. Stout, Reg. No. 26,422; Alan E. Schiavelli, Reg. No. 32,087; James N. Dresser, Reg. No. 22,973; Carl I. Brundidge, Reg. No. 29,621; Paul J. Skwierawski, Reg. No. 32,173; and Robert M. Bauer, Reg. No. 34,487; of ANTONELLI, TERRY, STOUT & KRAUS, LLP with offices located at 1300 North Seventeenth Street, Suite 1800, Arlington, Virginia 22209, my attorneys, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Send all correspondence to:

Customer Number 020457
ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 North Seventeenth Street
Suite 1800
Arlington, VA. 22209

Direct all telephone calls and faxes to:

TEL: (703) 312-6600
FAX: (703) 312-6666

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole/First Inventor Kati AHVONEN

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Second/Joint Inventor Ralitsa GATEVA

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Third/Joint Inventor Zhi-Chun HONKASALO

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Fourth/Joint Inventor Tuija HURTA

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Fifth/Joint Inventor Mika KIIKKILÄ

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Sixth/Joint Inventor Aki T. KORHONEN

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Seventh/Joint Inventor Zheng LI

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Seventh/Joint Inventor Markku T. MÄKINEN

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Seventh/Joint Inventor Antti PIKKUSAARI

Inventor's Signature  Date 3.2.2004

Residence ESPOO, FINLAND Citizenship FINLAND
(City, State) (Country of Citizenship)

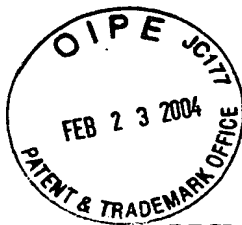
Mailing Address NIHTIMÄNKUJA 38, 02630 ESPOO, FINLAND

Full Name of Seventh/Joint Inventor Martti TUULOS

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____



Attorney's Docket No.: 0172.42109X00

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that: my residence, post office address and country of citizenship are as stated below, next to my name; I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

ENHANCED QOS CONTROL

the specification of which

is attached hereto.

X

was filed on September 26, 2003 as

United States Application Number 10/670,221

or PCT International Application Number _____

and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits, under 35 U.S.C. 119(a)-(d) or 365(b), of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

**Priority
Claimed?**

NONE

(Number)

(Country)

(Foreign Filing Date)

Yes

No

(Number)

(Country)

(Foreign Filing Date)

Yes

No

I hereby claim the benefit, under 35 U.S.C. 119(e), of any United States provisional application(s) listed below:
60/413,877 September 27, 2002

(Application Number)

Filing Date

(Application Number)

Filing Date

I hereby claim the benefit, under 35 U.S.C. 120, of any United States application(s) listed below:

(Application Number)

Filing Date

(Status -- patented, pending, abandoned)

(Application Number)

Filing Date

(Status -- patented, pending, abandoned)

I hereby appoint: Donald R. Antonelli, Reg. No. 20,296; Melvin Kraus, Reg. No. 22,466; William I. Solomon, Reg. No. 28,565; Gregory E. Montone, Reg. No. 28,141; Ronald J. Shore, Reg. No. 28,577; Donald E. Stout, Reg. No. 26,422; Alan E. Schiavelli, Reg. No. 32,087; James N. Dresser, Reg. No. 22,973; Carl I. Brundidge, Reg. No. 29,621; Paul J. Skwierawski, Reg. No. 32,173; and Robert M. Bauer, Reg. No. 34,487; of ANTONELLI, TERRY, STOUT & KRAUS, LLP with offices located at 1300 North Seventeenth Street, Suite 1800, Arlington, Virginia 22209, my attorneys, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Send all correspondence to:

Customer Number 020457
ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 North Seventeenth Street
Suite 1800
Arlington, VA. 22209

Direct all telephone calls and faxes to:

TEL: (703) 312-6600
FAX: (703) 312-6666

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole/First Inventor Kati AHVONEN

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____

(City, State)

(Country of Citizenship)

Mailing Address _____

Full Name of Second/Joint Inventor Ralitsa GATEVA

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____

(City, State)

(Country of Citizenship)

Mailing Address _____

Full Name of Third/Joint Inventor Zhi-Chun HONKASALO

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____

(City, State)

(Country of Citizenship)

Mailing Address _____

Full Name of Fourth/Joint Inventor Tuija HURTA

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Fifth/Joint Inventor Mika KIIKKILÄ

Inventor's Signature [Signature] Date 4 Feb 2004

Residence ESPOO, FINLAND Citizenship FINLAND
(City, State) (Country of Citizenship)

Mailing Address ANKKURINVAARSI 18 H/5

FIN-02320 ESPOO, FINLAND

Full Name of Sixth/Joint Inventor Aki T. KORHONEN

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Seventh/Joint Inventor Zheng LI

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Seventh/Joint Inventor Markku T. MÄKINEN

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Seventh/Joint Inventor Antti PIKKUSAARI

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Seventh/Joint Inventor Martti TUULOS

Inventor's Signature  Date 3rd Feb. 2004

Residence Tampere (City, State) Citizenship Finland (Country of Citizenship)

Mailing Address Pilotinkatu 38, FIN-33900 Tampere, Finland



Attorney's Docket No.: 0172.42109X00

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that: my residence, post office address and country of citizenship are as stated below, next to my name; I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

ENHANCED QOS CONTROL

the specification of which

is attached hereto.

X

was filed on September 26, 2003 as

United States Application Number 10/670,221

or PCT International Application Number _____

and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits, under 35 U.S.C. 119(a)-(d) or 365(b), of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

**Priority
Claimed?**

NONE

(Number)

(Country)

(Foreign Filing Date)

Yes

No

(Number)

(Country)

(Foreign Filing Date)

Yes

No

I hereby claim the benefit, under 35 U.S.C. 119(e), of any United States provisional application(s) listed below:
60/413,877 September 27, 2002

(Application Number)

Filing Date

(Application Number)

Filing Date

I hereby claim the benefit, under 35 U.S.C. 120, of any United States application(s) listed below:

(Application Number)

Filing Date

(Status -- patented, pending, abandoned)

(Application Number)

Filing Date

(Status -- patented, pending, abandoned)

I hereby appoint: Donald R. Antonelli, Reg. No. 20,296; Melvin Kraus, Reg. No. 22,466; William I. Solomon, Reg. No. 28,565; Gregory E. Montone, Reg. No. 28,141; Ronald J. Shore, Reg. No. 28,577; Donald E. Stout, Reg. No. 26,422; Alan E. Schiavelli, Reg. No. 32,087; James N. Dresser, Reg. No. 22,973; Carl I. Brundidge, Reg. No. 29,621; Paul J. Skwierawski, Reg. No. 32,173; and Robert M. Bauer, Reg. No. 34,487; of ANTONELLI, TERRY, STOUT & KRAUS, LLP with offices located at 1300 North Seventeenth Street, Suite 1800, Arlington, Virginia 22209, my attorneys, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Send all correspondence to:

Customer Number 020457
ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 North Seventeenth Street
Suite 1800
Arlington, VA. 22209

Direct all telephone calls and faxes to:

TEL: (703) 312-6600
FAX: (703) 312-6666

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole/First Inventor Kati AHVONEN

Inventor's Signature _____ Date _____
Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Second/Joint Inventor Ralitsa GATEVA

Inventor's Signature _____ Date _____
Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Third/Joint Inventor Zhi-Chun HONKASALO

Inventor's Signature _____ Date _____
Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Fourth/Joint Inventor Tuija HURTA

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Fifth/Joint Inventor Mika KIIKKILÄ

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Sixth/Joint Inventor Aki T. KORHONEN

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Seventh/Joint Inventor Zheng LI

Inventor's Signature [Signature] Date 3/2/2004

Residence HELSINKI, FINLAND Citizenship P.R. CHINA
(City, State) (Country of Citizenship)

Mailing Address ANGERVOTIE 12 B 13, 00320 HELSINKI, FINLAND

Full Name of Seventh/Joint Inventor Markku T. MÄKINEN

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Full Name of Seventh/Joint Inventor Antti PIKKUSAARI

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country of Citizenship)

Mailing Address _____

Title 37, Code of Federal Regulations, Section 1.56
Duty to Disclose Information Material to Patentability

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by 991.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

(1) Prior art cited in search reports of a foreign patent office in a counterpart application, and

(2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

(1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or

(2) It refutes, or is inconsistent with, a position the applicant takes in:

(i) Opposing an argument of unpatentability relied on by the Office, or

(ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

(1) Each inventor named in the application;

(2) Each attorney or agent who prepares or prosecutes the application; and

(3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

(e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.